

**AVTECH's Flood Sensor - Cable** detects liquid when it bridges any pair of conductive threads twisted along the length of the patented orange cable.

The cable's design allows you to position it in a variety of ways to detect water where it runs or settles, such as on the floor around valuable IT equipment; around a pipe that water runs down; or on a tray in a drop-ceiling beneath a dripping air conditioner.

### Flood Sensor - Cable Package Contents

- One (1) Flood Sensor box
- One (1) Flood Cable w/ 25' RJ-11 leader
- One (1) 25' speaker wire
- One (1) AVTECH 5V power adapter
- Two (2) mounting screws



### Flood Sensor Box



### Flood Sensor - Cable Features

#### Switch Ports

#### **Flood Detection Port**

Use this port to monitor the presence/absence of liquid. Its switch state becomes Open (alarm state) when liquid is detected.

#### **Cable Fault Detection Port (Optional use)**

If you wish to monitor the state of the Flood Sensor Cable itself, use this port. Its switch state becomes Open (alarm state) under these circumstances:

- The RJ-11 leader is disconnected from the Flood Sensor box.
- There's a severe pinch, twist or other physical damage to the orange-twisted Flood Cable.
- Power is no longer being supplied to the Flood Sensor box.

Switch Port	CLOSED means...	OPEN means...
<b>Flood Detection</b>	Liquid NOT detected (normal)	Liquid detected (alarm)
<b>Cable Fault Detection (Optional)</b>	No cable fault (normal)	Cable fault (alarm)

### Status LED

The Status LED indicates the state of the Flood Sensor:

Appearance	Means...
Lit solid	Liquid NOT detected (normal)
Blinking steadily	Liquid detected (alarm)
Double blink (blink twice/pause/blink twice/etc.)	Flood Sensor Cable disconnected

### Install Your Flood Sensor - Cable



Do not use this sensor in hazardous (classified) locations or life safety applications.

#### Step 1: Mount your Flood Sensor - Cable.



Do not allow the Flood Sensor box to come in contact with liquid. The box itself plugs into main power and must stay dry.

1. Locate the Flood Sensor box away from water and above any anticipated water line—the box itself plugs into main power and must stay dry. You may mount it using the two included mounting screws.
2. Run the orange-twisted Flood Cable where water is most likely to run or settle.

#### Step 2: Connect the Flood Sensor Cable to the Flood Sensor box.

Connect the RJ-11 leader to the RJ-11 port on the Flood Sensor box. Try to avoid running the leader cable near large electromagnetic devices or fluorescent lights, which produce EMI and can interfere with sensor readings.



#### Step 3: Connect the Flood Sensor box to the Room Alert Monitor.



Do not connect the switch sensor inputs (dry contacts) on AVTECH products to any live circuit.

Use only low-voltage 2-wire cable to connect switch sensor inputs.

## Flood Sensor - Cable (RMA-F008-SEN & RMA-F024-SEN)

Your Flood Sensor box comes with one end of the 25' speaker cable already attached to its Flood Detection switch port, which is non-polarized. Follow these steps to attach the other end to a switch port on your Room Alert Monitor:



1. Separate and strip the leads on the free end of the speaker cable, exposing about ¼" of wire.
2. Run the speaker cable back to your Room Alert Monitor. Try to avoid running it near large electromagnetic devices or fluorescent lights, which produce EMI and can interfere with sensor readings.
3. Connect the free ends (the ¼" leads) of the speaker cable to an open switch port on your Room Alert Monitor. Be sure the bare wire, not the insulation, connects to the port. The leads are non-polarized, so you may connect either lead to either side of the open port.



### Step 4: Connect your Flood Sensor - Cable to a power source.



Use only the AVTECH 5V power adapter. Others may damage the sensor.

1. Connect the included power adapter to the power port on the Flood Sensor box.
2. Then insert the power adapter plug in to a power source.

Notice that the Status LED lights up when the box is plugged in to power.



### Clean Your Flood Cable

Over time, the orange-twisted Flood Cable will accumulate dust, dirt, etc., particularly if it's placed on the floor. When the cable gets dirty, it can cause the Flood Sensor to trigger false alerts.

If you receive false alerts, check the cable to see if it needs to be cleaned. We recommend disconnecting it and cleaning it using dish soap and a wet rag. Then let the cable sit for 24 to 48 hours to dry, preferably in a location with low humidity so that the cable does not retain any moisture.

## Sensor Features & Specifications

<b>Environment Condition Monitored</b>	Presence/absence of liquid
<b>Type Of Sensor</b>	Switch
<i>Flood Detection Switch Port</i>	
Normal State	Closed (Liquid NOT detected)
Alarm State	Open (Liquid detected)
<i>Cable Fault Detection Switch Port</i>	
Normal State	Closed (No cable fault)
Alarm State	Open (Cable fault)
<b>Power Supply</b>	AVTECH 5V power adapter
<b>Sensor Cable Type</b>	
<i>2-wire low-voltage speaker wire</i>	
Included	Yes
Length	25' (7.6 m)
Maximum Extendible Length	900' (274.3 m)
<i>RJ-11 leader</i>	
Included	Yes, built-in
Length	25' (7.6 m)
Maximum Extendible Length	100' (30.5 m)
<i>Flood Cable</i>	
Included	Yes
Length	8' (2.4 m), 24' (7.3 m) and custom lengths available
<b>Compatible Products</b>	Any Room Alert model

### Previous Generation Flood Sensor Cable

In the previous generation of Flood Sensor Cable, the orange-twisted Flood Cable and the RJ-11 leader are separate components that must be fitted together. To assemble the previous generation Flood Sensor Cable:

- Connect the 4-pin custom jack on the orange twisted Flood Cable to the matching port on the RJ-11 leader.
- Screw the cover down on the plastic threads for a secure fit.

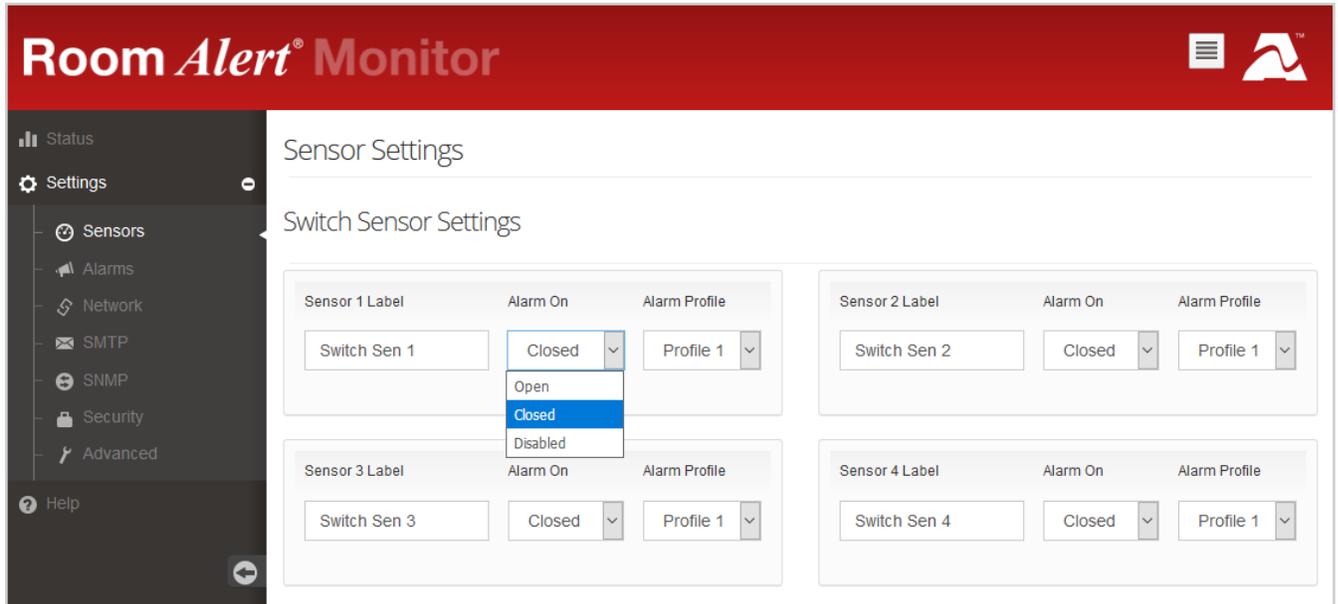


When the orange-twisted Flood Cable is disconnected from the RJ-11 leader cable, the Cable Fault Detection port's switch state will read as Open.

### Configure Your Switch Sensor

#### Use Room Alert Monitor's Built-In Web Interface

Navigate to **Settings** → **Sensors** in your Room Alert Monitor's web interface. The options you see below will vary depending on your Room Alert model.



1. Scroll down to *Switch Sensor Settings*.
2. Find the switch sensor label that matches the port you connected your switch sensor to. For example, if you used the first switch sensor port on your Room Alert Monitor, look for *Sensor 1 Label*; if you used the second, look for *Sensor 2 Label*, and so on.
3. In *Sensor X Label*, you may leave the default, "Switch Sen X," or enter something more descriptive of up to 15 characters. You may use the following characters in sensor labels: letters, numbers, spaces, hyphens (-), underscores (\_) and periods (.).
4. In *Alarm On*, select the alarm state (**Open** or **Closed**) for your switch sensor. You may find the alarm state of your switch sensor under the *Features & Specifications* section of this Installation Note.
5. In *Alarm Profile*, which controls light towers and relays on your Room Alert Monitor, you may leave the default, **Profile 1**, or choose another profile from the drop-down menu.
6. Select **Save Settings** at the top or bottom of the page. Your Room Alert Monitor will automatically reboot and commit your changes.